

DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL

SET
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```
0000 1 .TITLE SET - SET PARAMETER DCLS COMMAND EXECUTION
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
0000 7
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```



```
0000 28 : SET PARAMETER DCLS COMMAND EXECUTION
0000 29 :
0000 30 :
0000 31 : SET DIRECTORY
0000 32 : SET PROTECTION
0000 33 : SET USER IDENTIFICATION CODE
0000 34 : SET VERIFY MODE
0000 35 : SET ON
0000 36 : SET CONTROL
0000 37 : SET PROMPT
0000 38 :
0000 39 : D. N. CUTLER 17-APR-77
0000 40 :
0000 41 : MODIFIED BY:
0000 42 :
0000 43 : V03-015 HWS0095 Harold Schultz 25-Jul-1984
0000 44 : Add support for execute-only command procedures.
0000 45 :
0000 46 : V03-014 HWS0011 Harold Schultz 13-Feb-1984
0000 47 : Use PRC_V_CARRCNTL to indicate presence/absence of
0000 48 : CR/LF in prompt string.
0000 49 : Fix broken branch.
0000 50 :
0000 51 : V03-013 PCG0012 Peter George 12-Oct-1983
0000 52 : Fix bug in SET NOON, ON severity, SET ON sequence.
0000 53 :
0000 54 : V03-012 PCG0011 Peter George 18-Aug-1983
0000 55 : Change the way that default protection is changed.
0000 56 :
0000 57 : V03-011 KBT0577 Keith B. Thompson 8-Aug-1983
0000 58 : Fix a bug in kbt0572
0000 59 :
0000 60 : V03-010 KBT0572 Keith B. Thompson 1-Aug-1983
0000 61 : Use STRNLNM in SET DEFAULT
0000 62 :
0000 63 : V03-009 PCG0010 Peter George 07-Jul-1983
0000 64 : Update SET UIC.
0000 65 :
0000 66 : V03-008 PCG0009 Peter George 31-May-1983
0000 67 : Reference $RMEDEF.
0000 68 :
0000 69 : V03-007 PCG0008 Peter George 27-May-1983
0000 70 : Add image verification.
0000 71 :
0000 72 : V03-006 PCG0007 Peter George 30-Apr-1983
0000 73 : Change reference to CRLF.
0000 74 :
0000 75 : V03-005 PCG0006 Peter George 17-Feb-1983
0000 76 : Remove reference to $CLIDEFQUALSET.
0000 77 : Convert to new table structure.
0000 78 :
0000 79 : V03-004 PCG0005 Peter George 19-Nov-1982
0000 80 : Let SET PROMPT with no argument restore the default
0000 81 : prompt.
0000 82 :
0000 83 : V03-003 PCG0004 Peter George 28-Oct-1982
0000 84 : Add SET PROMPT.
```

```
0000 85 :
0000 86 :
0000 87 : V03-002 PCG0003 Peter George 22-Oct-1982
0000 88 : Fix keyword parsing bug in SET PROTECTION.
0000 89 :
0000 90 : V03-001 PCG0002 Peter George 01-Jul-1982
0000 91 : Modify SET CONTROL and SET PROTECTION to interact with
0000 92 : DCL keyword parsing.
0000 93 :
0000 94 :
0000 95 :
0000 96 : MACRO LIBRARY CALLS
0000 97 :
0000 98 :
0000 99 :
0000 100 : $$CLITABDEF ;TABLE STRUCTURE DEFINITIONS
0000 101 : WRKDEF ;DEFINE COMMAND WORK AREA
0000 102 : PRCDEF ;DEFINE PROCESS WORK AREA
0000 103 : PTRDEF ;DEFINE RESULT PARSE DESCRIPTOR FORMAT
0000 104 : IDFDEF ;DEFINE INDIRECT FILE DATA STRUCTURE
0000 105 : $LNMDDEF
0000 106 : $LOGDEF ;LOGICAL NAME DEFINITIONS
0000 107 : $RMEDEF ;DEFINE RME CONSTANTS
0000 108 : $PCBDEF ;DEFINE PCB OFFSETS
0000 109 : $PRVDEF ;PRIVILEGE BIT DEFINITIONS
0000 110 : $CLMSGDEF ;DEFINE CLI RELATED ERRORS
0000 111 :
0000 112 : LOCAL DATA
0000 113 :
0000 114 :
00000000 115 : .PSECT DCL$ZCODE,BYTE,RD,NOWRT
52 57 45 44 0000 116 ACCESS: ;ACCESS PROTECTION CODES
53 4F 47 57 0004 117 .ASCII /DEWR/ ;
0004 118 CLASS: ;PROTECTION CLASSES
0008 119 .ASCII /WGOS/ ;
56 45 44 5F 45 4C 49 46 24 4D 4E 4C 0008 120
0000000C 0014 121 TABNAM: .ASCII /LNMSFILE_DEV/ ; Logical name table to search
0014 122 TABNAMSZ=.-TABNAM ; for device names
0014 123
0014 124 DCLST_DSKNAM:: ; String for default device
4B 53 49 44 24 53 59 53 00' 0014 125 .ASCII /SYS$DISK/ ;
08 0014
001D 126
001D 127 CONTROL_CHARS: ;SET CONTROL CHARACTERS
20 20 20 20 20 54 20 20 20 20 59 20 001D 128 .ASCII / Y T ;
20 20 20 20 20 20 20 20 20 20 20 20 0029
20 20 0035
```



```
0037 130 .SBTTL SET USER IDENTIFICATION CODE
0037 131
0037 132 :+ DCL$SETUIC - SET USER IDENTIFICATION CODE
0037 133
0037 134 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET USER
0037 135 IDENTIFICATION CODE DCLS COMMAND.
0037 136
0037 137 INPUTS:
0037 138
0037 139 RB = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0037 140 R9 = ADDRESS OF SCRATCH STACK.
0037 141 R10 = BASE ADDRESS OF COMMAND WORK AREA.
0037 142 R11 = BASE ADDRESS OF PROCESS WORK AREA.
0037 143
0037 144 OUTPUTS:
0037 145
0037 146 THE CURRENT USER IDENTIFICATION CODE IS ESTABLISHED.
0037 147 :-
0037 148
0037 149 DCL$SETUIC::
0037 150 ADDL #PTR_C LENGTH,- ;SET USER IDENTIFICATION CODE
0039 151 WRK_C RSLNXT(R10) ;SKIP OPTION DESCRIPTOR
003B 152 BSBW DCL$GETDVAL ;GET THE VALUE OF THE TOKEN DESCRIPTOR
003E 153
003E 154 :
003E 155 : TRANSLATE THE OVERALL STRING.
003E 156 :
003E 157 MOVQ R1,-(R9) ;PUSH DESCRIPTOR INTO SCRATCH STACK
0041 158 PUSHL R2 ;ADDRESS OF STRING IN BUFFER
0043 159 PUSHL #63 ;MAXIMUM STRING TO RETURN
0045 160 MOVL SP,R0 ;GET ADDRESS OF OUTPUT DESCRIPTOR
004B 161 $TRNLOG S (R9),(R0),(R0) ;TRANSLATE THE NAME
005B 162 MOVQ -(SP)+,R4 ;RESET THE RESULTANT STRING DESCRIPTOR
005E 163
005E 164 :
005E 165 : SKIP PAST NODE AND DEVICE NAMES. FIND START OF DIRECTORY SPECIFICATION.
005E 166 :
005E 167
005E 168 10$: CLRB (R5)[R4] ;MARK THE END OF STRING
0061 169 LOCC #A/:/,R4,(R5) ;LOOK FOR DEVICE NAME DELIMITER
0065 170 BEQL 20$ ;BRANCH IF NO DEVICE HERE
0067 171 SUBL3 #1,R0,R4 ;SKIP PAST DEVICE NAME
006B 172 MOVAB 1(R1),R5
006F 173 CMPB (R1)+,(R1)
0072 174 BNEQ 20$ ;IS THIS A NODE NAME?
0074 175 DECL R4 ;BR IF ONLY DEVICE
0076 176 INCL R5 ;SKIP PAST SECOND COLON
0078 177 BRB 10$ ;LOOK FOR MORE NODES OR DEVICE
007A 178
007A 179 :
007A 180 : CONVERT THE DIRECTORY STRING TO A UIC.
007A 181 20$: BSBW DCL$CVTUIC ;GET THE UIC
007C 182 BLBC R0,90$ ;BRANCH IF ERROR
007F 183 MOVL R1,-(R9) ;SAVE LONGWORD UIC
0082 184 $CMKRNLS B^SETUIC,(R9) ;SET USER IDENTIFICATION CODE
008E 185 90$: RSB ;RETURN WITH STATUS
008F 186
```

OC	CO	0037	150	ADDL	#PTR_C LENGTH,-	;SET USER IDENTIFICATION CODE
BA AA		0039	151	WRK_C	RSLNXT(R10)	;SKIP OPTION DESCRIPTOR
FFC2'	30	003B	152	BSBW	DCL\$GETDVAL	;GET THE VALUE OF THE TOKEN DESCRIPTOR
		003E	153			
		003E	154	:		
		003E	155	:	TRANSLATE THE OVERALL STRING.	
		003E	156	:		
79	51	7D	003E	157	MOVQ R1,-(R9)	;PUSH DESCRIPTOR INTO SCRATCH STACK
	52	DD	0041	158	PUSHL R2	;ADDRESS OF STRING IN BUFFER
	3F	DD	0043	159	PUSHL #63	;MAXIMUM STRING TO RETURN
50	5E	D0	0045	160	MOVL SP,R0	;GET ADDRESS OF OUTPUT DESCRIPTOR
			004B	161	\$TRNLOG S (R9),(R0),(R0)	;TRANSLATE THE NAME
54	8E	7D	005B	162	MOVQ -(SP)+,R4	;RESET THE RESULTANT STRING DESCRIPTOR
			005E	163		
			005E	164	:	
			005E	165	:	SKIP PAST NODE AND DEVICE NAMES. FIND START OF DIRECTORY SPECIFICATION.
			005E	166	:	
			005E	167		
65	54	3A	0061	168	10\$: CLRB (R5)[R4]	;MARK THE END OF STRING
	13	13	0065	169	LOCC #A/:/,R4,(R5)	;LOOK FOR DEVICE NAME DELIMITER
54	50	01	0067	170	BEQL 20\$;BRANCH IF NO DEVICE HERE
55	01	A1	006B	171	SUBL3 #1,R0,R4	;SKIP PAST DEVICE NAME
	61	81	006F	172	MOVAB 1(R1),R5	
		06	0072	173	CMPB (R1)+,(R1)	;IS THIS A NODE NAME?
		54	0074	174	BNEQ 20\$;BR IF ONLY DEVICE
		55	0076	175	DECL R4	;SKIP PAST SECOND COLON
		E7	0078	176	INCL R5	
			007A	177	BRB 10\$;LOOK FOR MORE NODES OR DEVICE
			007A	178		
			007A	179	:	
			007A	180	:	CONVERT THE DIRECTORY STRING TO A UIC.
	29	10	007A	181	20\$: BSBW DCL\$CVTUIC	;GET THE UIC
OF	50	E9	007C	182	BLBC R0,90\$;BRANCH IF ERROR
79	51	D0	007F	183	MOVL R1,-(R9)	;SAVE LONGWORD UIC
			0082	184	\$CMKRNLS B^SETUIC,(R9)	;SET USER IDENTIFICATION CODE
		05	008E	185	90\$: RSB	;RETURN WITH STATUS
			008F	186		

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J 8
- SET PARAMETER DCLS COMMAND EXECUTION
SET USER IDENTIFICATION CODE

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```

      008F 187 :
      008F 188 : SET USER IDENTIFICATION CODE
      008F 189 :
50      00000000'9F 0000 008F 190 SETUIC: .WORD 0          ;ENTRY MASK
      00BC C0 6C DO 0091 191 MOVL @#SCH$GL CURPCB,R0      ;GET CURRENT PROCESS PCB ADDRESS
      DO 0098 192 MOVL (AP),PCBSL_UIC(R0)                  ;SET USER IDENTIFICATION CODE
      04 00A4 193 STATUS NORMAL
      RET 194

```



```
00A5 196 .SBTTL CONVERT STRING TO LONGWORD UIC
00A5 197 :+
00A5 198 :DCL$CVTUIC - CONVERT STRING TO LONGWORD UIC.
00A5 199 :
00A5 200 :INPUTS:
00A5 201 :
00A5 202 :R4/R5 = DESCRIPTOR OF UIC STRING
00A5 203 :
00A5 204 :OUTPUTS:
00A5 205 :
00A5 206 :R0 = STATUS
00A5 207 :R1 = LONGWORD UIC
00A5 208 :R2-R5 ARE TRASHED
00A5 209 :-
00A5 210 :DCL$CVTUIC::
00A5 211 :DECL R4 :SKIP LEADING BRACKET
00A7 212 :INCL R5 :
00A9 213 :MOVQ R4,-(SP) :SAVE DIRECTORY DESCRIPTOR
00AC 214 :CLRL -(SP) :ALLOCATE LONGWORD FOR UIC
00AE 215 :CMPB #^A/[,-1(R5) :START WITH A BRACKET?
00B3 216 :BEQL 10$ :IF EQL YES
00B5 217 :CMPB #^A/</,-1(R5) :START WITH A BRACKET?
00B9 218 :BNEQ 90$ :IF NEQ NO
00BB 219 10$: MOVL SP,R3 :SAVE ADDRESS OF UIC LONGWORD
00BE 220 :BSBW CVTUIC :CONVERT GROUP NUMBER
00C1 221 :CMPB #^A/./,(R5)+ :END WITH A COMMA?
00C4 222 :BNEQ 50$ :IF NEQ NO
00C6 223 :MOVW R0,2(R3) :SAVE GROUP NUMBER
00CA 224 :BSBW CVTUIC :CONVERT MEMBER NUMBER
00CD 225 :CMPB #^A/] /,(R5) :END WITH A BRACKET?
00D1 226 :BEQL 20$ :IF EQL YES
00D3 227 :CMPB #^A/>/,(R5) :END WITH A BRACKET?
00D6 228 :BNEQ 50$ :IF NEQ NO
00D8 229 20$: MOVW R0,(R3) :SAVE MEMBER NUMBER
00DB 230 30$: POPL R1 :GET UIC NUMBER
00DE 231 :ADDL #8,SP :POP UIC DESCRIPTOR
00E1 232 :STATUS NORMAL :RETURN SUCCESS
00E8 233 :RSB :
00E9 234 :
00E9 235 :
00E9 236 :SIGNAL INVALID UIC SYNTAX
00E9 237 :
00E9 238 90$: STATUS INVIC :SET INVALID UIC SYNTAX
00F0 239 95$: ADDL #12,SP :RESTORE THE STACK
00F3 240 :RSB :
00F4 241 :
00F4 242 :
00F4 243 :TAKE UIC APART AND TRY TO CONVERT IT USING $ASCTOID.
00F4 244 :
00F4 245 50$: MOVQ 4(R3),R4 :GET UIC DESCRIPTOR
00F8 246 :LOCC #^A/./,R4,(R5) :LOOK FOR A COMMA
00FC 247 :BEQL 60$ :BRANCH IF NONE
00FE 248 :SUBL R0,4(R3) :GET LENGTH OF GROUP NAME
0102 249 :DECL R0 :CREATE DESCRIPTOR OF REST OF UIC
0104 250 :INCL R1 :
0106 251 :MOVQ R0,R4 :SAVE DESCRIPTOR OF REST OF UIC
0109 252 :$ASCTOID_S NAME=4(R3),- :GET THE GROUP ID
```

```
0109 253 ID=(R3)
0117 254 BLBC R0,95$ ;BRANCH IF ERROR
04 A3 D6 50 E9 011A 255 MOVQ R4,4(R3) ;SAVE DESCRIPTOR OF REST OF UIC
7D 011E 256
65 54 5D 8F 3A 011E 257 60$: LOCC #^A/] /,R4,(R5) ;LOOK FOR A CLOSING BRACKET
06 12 0123 258 BNEQ 65$ ;BRANCH IF FOUND
65 54 3E 3A 0125 259 LOCC #^A/> /,R4,(R5) ;LOOK FOR A CLOSING BRACKET
BE 13 0129 260 BEQL 90$ ;BRANCH IF NONE
04 A3 50 C2 012B 261 65$: SUBL R0,4(R3) ;GET LENGTH OF MEMBER NAME
012F 262 $ASCTOID S,NAME=4(R3),- ;GET THE UIC
012F 263 ID=(R3)
B0 50 E9 013D 264 BLBC R0,95$ ;BRANCH IF ERROR
FF98 31 0140 265 BRW 30$ ;SET THE UIC
0143 266
0143 267
0143 268 ; CONVERT ASCII OCTAL UIC COMPONENT TO NUMERIC WORD
0143 269
0143 270 CVTUIC: CLRQ R0 ;CLEAR ACCUMULATION AND CHARACTER
51 65 50 7C 0143 271 10$: SUBB3 #^A/0 /,(R5),R1 ;GET NEXT CHARACTER
30 83 0145 272 BLSS 20$ ;IF LSS NOT DIGIT
0D 19 0149 273 CMPL #8,R1 ;OCTAL DIGIT?
51 08 D1 014B 274 BLEQ 20$ ;IF LEQ NO
08 15 014E 275 MOVAQ (R1)[R0],R0 ;ACCUMULATE RESULT
50 6140 7E 0150 276 INCL R5 ;POINT TO NEXT CHARACTER
55 D6 0154 277 BRB 10$
ED 11 0156 278 20$: RSB
05 0158 279
0159 279
```

```
0159 281 .SBTTL SET DEFAULT DEVICE AND/OR DIRECTORY
0159 282
0159 283 :+
0159 284 : DCL$SETDEFAULT - SET DEFAULT DEVICE AND/OR DIRECTORY
0159 285 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET DEFAULT
0159 286 : DCLS COMMAND.
0159 287
0159 288 : INPUTS:
0159 289
0159 290 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0159 291 : R9 = ADDRESS OF SCRATCH STACK.
0159 292 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0159 293 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0159 294
0159 295 : OUTPUTS:
0159 296
0159 297 : R4,R5 = STRING DESCRIPTOR FOR DIRECTORY PORTION
0159 298 : SYS$DISK = DEFAULT DISK
0159 299 : THE CURRENT DEFAULT DIRECTORY IS ESTABLISHED.
0159 300 :-
0159 301
0000000A 0159 302 MAX_TRANS_LVL5 = 10 ; maximum translation levels allowed
0159 303
0159 304 :
0159 305 : LNM service buffer offsets from R8
0159 306
0159 307
00000000 0159 308 Q_LOGNAM = 0 ; Logical name descriptor
00000008 0159 309 Q_TABLE = 8 ; Table name descriptor
00000010 0159 310 L_ATTR = 16 ; Attributes longword
00000014 0159 311 L_MAX_INDEX = 20 ; Max Index
00000018 0159 312 W_STRING_LEN = 24 ; String length
0000001C 0159 313 T_STRING_BUF = 28 ; String buffer
0000011C 0159 314 S_XLT_BUF = 284 ; Output buffer size
0159 315
0159 316
0C C0 0159 317 DCL$SETDEFAULT:: ; SET DEFAULT
BA AA 0159 318 ADDL2 #PTR C LENGTH,- ; skip option descriptor
FEA0' 30 0159 319 WRK C RSLNXT(R10)
0159 320 BSBW DCL$GETDVAL ; <R1,R2> = token
0160 321
0160 322 :
0160 323 : Translate the overall string to get 1 level of translation
0160 324
0160 325
59 5C 0A D0 0160 326 MOVL #MAX_TRANS_LVL5,AP ; set max translation counter
0000011C 8F C2 0163 327 SUBL2 #S_XLT_BUF,R9 ; allocate buffer
58 59 D0 016A 328 MOVL R9,R8 ; save addr of buffer
016D 329
016D 330
016D 331 : Create item list for STRNLNM
016D 332
016D 333
016D 334 CLRQ -(R9) ; clear last longword and length addr
79 10 A8 DE 016F 335 MOVAL L_ATTR(R8),-(R9) ; set up attributes item
00030004 8F D0 0173 336 MOVL #ZLNMS_ATTRIBUTES@16>+4,- ;
0179 337 -(R9)
```



```

79 18 A8 3E 017A 338      MOVAW  W_STRING_LEN(R8),-(R9)      : string size goes here
79 1C A8 9E 017E 339      MOVAB   T_STRING_BUF(R8),-(R9)      : string buffer
000200FF 8F D0 0182 340      MOVL    #ZLNMS_STRING@16>+255,-  :
79 79 79 0188 341      :-(R9)
79 D4 0189 342      CLRL     -(R9)      : no output size
79 14 A8 DE 018B 343      MOVAL   L_MAX_INDEX(R8),-(R9)      : max index here
00070004 8F D0 018F 344      MOVL    #ZLNMS_MAX_INDEX@16>+4,-  :
79 79 79 0195 345      :-(R9)
OC A8 08 A8 OC 9A 0196 346      MOVZBL #TABNAMSZ,Q_TABLE(R8)      : create descriptor of logical name
OC A8 FE6A CF 9E 019A 347      MOVAB   TABNAM,Q_TABLE+4(R8)      : table to look in
68 51 7D 01A0 348      MOVQ     R1,Q_LOGNAM(R8)      : set up logical name
01A3 349      STRNLNM $-  : translate the logical name
01A3 350      TABNAM=Q_TABLE(R8),-
01A3 351      LOGNAM=Q_LOGNAM(R8),-
01A3 352      ITMLST=(R9)
0000'8F 50 B1 01B5 353      CMPW    R0,#SS$ _NORMAL      : success?
0000'8F 08 13 01BA 354      BEQL    10$      : yes
0000'8F 50 B1 01BC 355      CMPW    R0,#SS$ _NOLOGNAM      : no translation?
18 13 01C1 356      BEQL    15$      : yes
05 01C3 357      RSB      : error
01C4 358
01C4 359
01C4 360      : Check if there was a really a translation, was it a search list
01C4 361      : and if it was a concealed device.
01C4 362
01C4 363
14 A8 D5 01C4 364 10$: TSTL     L_MAX_INDEX(R8)      : was there a real non-search list name
17 14 01C7 365      BGTR     20$      : branch if >0, search list
10 19 01C9 366      BLSS     15$      : branch if <0, null translation
08 E0 01CB 367      BBS      #LNMSV CONCEALED,-  : ignore if translation concealed
10 10 A8 01CD 368      MOVZWL   W_STRING_LEN(R8),-  : set result string length
18 A8 3C 01D0 369      Q_LOGNAM(R8)
68 01D3 370      MOVZWL   W_STRING_LEN(R8),-  :
18 A8 28 01D4 371      MOVCL    W_STRING_LEN(R8),-  : copy translation into the buffer
1C A8 01D7 372      T_STRING_BUF(R8),-  : where the original token use to be
04 B8 01D9 373      @Q_LOGNAM+4(R8)
54 68 7D 01DB 374 15$: MOVQ     Q_LOGNAM(R8),R4      : setup string descriptor
10 11 01DE 375      BRB      40$      : parse string
01E0 376
01E0 377
01E0 378      : We could not use the translation because of concealed name or search list
01E0 379      : so use the original input string
01E0 380
01E0 381
54 68 7D 01E0 382 20$: MOVQ     Q_LOGNAM(R8),R4      : get source descriptor
01E3 383
01E3 384
01E3 385      : Make sure the last character is a ":" so it acts like a device name
01E3 386
01E3 387
3A FF A544 91 01E3 388      CMPB    -1(R5)[R4],#^A':  : is last char a colon?
06 13 01E8 389      BEQL    40$      : continue if so
6544 3A 90 01EA 390      MOVB    #^A':',(R5)[R4]      : append a colon if not
54 D6 01EE 391      INCL     R4      : count it as well
01F0 392
01F0 393
01F0 394      : Locate the device portion of the string, include any node names found as well
```

```

        01F0 395 :
        01F0 396 :
        01F0 397 40$: CLRB (R5)R4] : mark end of string
        01F3 398 : LOCC #^A/:/,R4,(R5) : look for device name delimiter
        01F7 399 : BEQL 70$ : branch if no device here
        01F9 400 : CMPB (R1)+,(R1) : is this a node name?
        01FC 401 : BNEQ 60$ : branch if only device
        01FE 402 : MOVAB 1(R1),R3 : set address of end of node string
        0202 403 : SUBL #2,R0 : and length of remainder
        0205 404 : LOCC #^A/:/,R0,(R3) : see if device name is here
        0209 405 : BEQL 50$ : branch if none, just use node
        020B 406 : MOVAB 1(R1),R3 : set end of device name
        020F 407 50$: MOVL R3,R1 : set end of equivalence name for disk
        0212 408 60$: MOVL R5,R2 : save start of device string
        0215 409 : MOVL R1,R5 : set start of directory string
        0218 410 : SUBL R2,R1 : find length of device name
        021B 411 : SUBL R1,R4 : adjust directory string length
        021E 412 :
        021E 413 :
        021E 414 : At this point: <R1,R2> = device (+node)
        021E 415 : <R4,R5> = rest of string
        021E 416 :
        021E 417 : Check if the device portion = 'SYS$DISK', if so ignore it
        021E 418 :
        021E 419 :
        021E 420 : MOVAB DCL$T_DSKNAM,R7 : address of device name counted string
        0223 421 : MOVZBL (R7)+,R6 : get length and address of first byte
        0226 422 : SUBL3 R6,R1,R0 : find difference in name string sizes
        022A 423 : DECL R0 : check if 1 byte difference(the colon!)
        022C 424 : BNEQ 80$ : br if no-can't be the special name
        022E 425 : PUSHB #^M<R1,R2> : save registers to be used
        0230 426 : CMPC3 R6,(R2),(R7) : check for reserved system name
        0234 427 : POPB #^M<R1,R2> : restore values
        0236 428 70$: BNEQ 80$ : branch if no device name assignment
        0238 429 : BRW 130$ : needed
        023B 430 :
        023B 431 :
        023B 432 : If the device portion has a translation and it contains a
        023B 433 : directory specification, then repeat using the translation
        023B 434 : if a directory was specified in addition, then report an error
        023B 435 : that 2 directory specifications appeared in the same string
        023B 436 :
        023B 437 :
        023B 438 80$: DECL R1 : do not send colon into trnlm
        023D 439 : MOVQ R1,Q_LOGNAM(R8) : set up logical name
        0240 440 : STRNLNM_S - : translate the logical name
        0240 441 : TABNAM=Q_TABLE(R8) -
        0240 442 : LOGNAM=Q_LOGNAM(R8) -
        0240 443 : ITMLST=(R9)
        0252 444 : CMPW R0,#SS$_NORMAL : success?
        0257 445 : BEQL 90$ : yes
        0259 446 : CMPW R0,#SS$_NOLOGNAM : no translation?
        025E 447 : BEQL 120$ : yes
        0260 448 : RSB : error
        0261 449 :
        0261 450 90$: TSTL L_MAX_INDEX(R8) : branch if no translation or
        0264 451 : BNEQ 120$ : search list

```

```

      31 10 08 E0 0266 452      BBS      #LNMSV CONCEALED,-      ; or concealed
18 AB 5B 8F 3A 0268 453      L_ATT(R8),120$
      1C 08 12 0270 455      LOCC      #A/C/,W_STRING_LEN(R8),- ; is there a directory in there?
      08 3C 3A 0272 456      T_STRING_BUF(R8)
18 AB 1C 08 13 0274 457      BNEQ      95$      ; ignore unless device/dir translation
      3C 3A 0276 458      LOCC      #A/C/,W_STRING_LEN(R8),- ; is there a directory in there?
      1C 08 13 0278 459      T_STRING_BUF(R8)
      20 05 13 027A 459      BEQL      120$      ; ignore unless device/dir translation
      54 05 12 027C 460 95$: TSTL      R4      ; any directory specified explicitly?
      11 12 027E 461      BNEQ      100$      ; if so, then error in specification
      18 AB 3C 0280 462      MOVZWL    W_STRING_LEN(R8),-      ; set result string length
      68 28 0283 464      MOVCL      W_STRING_LEN(R8),-      ; copy translation into the buffer
18 AB 1C 08 28 0284 465      T_STRING_BUF(R8),-      ; where the original token use to be
      04 08 0287 466      @ LOGNAM+4(R8)
54 08 7D 0289 467      MOVQ      Q_LOGNAM(R8),R4      ; setup string descriptor
      08 5C F5 028B 468      SOBGTR    AP,110$      ; limit translation levels
      FF54 05 028E 469      STATUS    DIRECT      ; error in directory specification
      31 05 0291 470 100$: RSB
      51 68 7D 0298 471 110$: BRW      40$      ; continue translation device portion
      51 51 D6 0299 472 120$: MOVQ      Q_LOGNAM(R8),R1      ; restore device portion descriptor
      02A1 473      INCL      RT      ; restore colon to end of string
      02A1 474      ;
      02A1 475      ; Create/update the logical name sys$disk which holds the current
      02A1 476      ; default disk device.
      02A1 477      ;
      00C6 8F BB 02A1 481      PUSHR      #M<R1,R2,R6,R7>      ; descriptors for logical and equivalence na
      00 DD 02A5 482      PUSHL      #0      ; access mode is defaulted
      04 AE 7F 02A7 483      PUSHAQ     4(SP)      ; address of equivalence name desc
      10 AE 7F 02A9 484      PUSHAQ     16(SP)      ; descriptor of name to relate with
      02 DD 02AD 485      PUSHL      #LOG$C PROCESS      ; table number
00000000'9F 08 FB 02AF 486      CALLS      #8,@SYS$CRELOG      ; clear descriptor on return
      1C 50 E9 02B6 487      BLBC      R0,150$      ; branch if error creating name
      02B9 488      ;
      02B9 489      ;
      02B9 490      ; Change the default directory specification (if any);
      02B9 491      ;
      02B9 492      ;
      02B9 493      ;
      54 05 02B9 494 130$: TSTL      R4      ; any directory field
      11 13 02BB 495      BEQL      140$      ; branch if no
      30 BB 02BD 496      PUSHR      #M<R4,R5>      ; descriptor for directory name
      7E 7C 02BF 497      CLRQ      -(SP)      ; zeros as arguments 2 & 3
      08 AE 9F 02C1 498      PUSHAB     8(SP)      ; address of directory string
00000000'GF 05 FB 02C4 499      CALLS      #5,G^SYS$SETDDIR      ; set the default directory
      07 50 E9 02CB 500      BLBC      R0,150$      ; branch if error from rms
      02CE 501 140$: STATUS    NORMAL      ; assume all is ok
      05 02D5 502 150$: RSB
      02D6 503
```



```
02D6 505 .SBTTL SET PROTECTION
02D6 506
02D6 507 :+ DCL$SETPROT - SET PROTECTION
02D6 508
02D6 509 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET PROTECTION
02D6 510 DCLS COMMAND.
02D6 511
02D6 512 INPUTS:
02D6 513
02D6 514 R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
02D6 515 R9 = ADDRESS OF SCRATCH STACK.
02D6 516 R10 = BASE ADDRESS OF COMMAND WORK AREA.
02D6 517 R11 = BASE ADDRESS OF PROCESS WORK AREA.
02D6 518
02D6 519 OUTPUTS:
02D6 520
02D6 521 THE CURRENT DEFAULT PROTECTION IS ESTABLISHED.
02D6 522
02D6 523
02D6 524 DCL$SETPROT::
02D6 525 CLRL -(SP) ;SET PROTECTION
02D6 526 MOVL SP, -(SP) ;WHERE TO RETURN PROTECTION
02D6 527 CLRL -(SP) ;NOTE WHERE PROTECTION IS TO BE PUT
02D6 528 CALLS #2, @SYS$SETDFPROT ;DON'T WANT TO SET PROTECTION
02D6 529 MOVL (SP)+, R9 ;GET DEFAULT PROTECTION
02D6 530 ADDL #2*PTR_C_LENGTH, - ;COPY PROTECTION TO USEFUL REG
02D6 531 WRK_L_RSCNXT(R10) ;SKIP PAST OPTION DESCRIPTOR
02D6 532 10$: BSBW DCL$GETDVAL ;AND /DEFAULT QUALIFIER
02D6 533 CMPB #PTR_K_PARAMETER, R5 ;GET NEXT DESCRIPTOR VALUES
02D6 534 BNEQ 40$ ;PARAMETER VALUE?
02D6 535 LOCC (R2)+, #4, CLASS ;IF NEQ NO
02D6 536 BEQL 60$ ;LOCATE PROTECTION CLASS
02D6 537 DECL R0 ;IF EQL INVALID CLASS
02D6 538 MULL3 #4, R0, R8 ;CALCULATE STARTING BIT NUMBER
02D6 539 INSV #*XF, R8, #4, R9 ;START WITH NO ACCESS
02D6 540 CMPB #PTR_K_COLON, R4 ;PROTECTION VALUE SPECIFIED?
02D6 541 BNEQ 10$ ;IF NEQ NO
02D6 542 BSBW DCL$GETDVAL ;GET PROTECTION VALUE DESCRIPTOR
02D6 543 MOVL R1, R7 ;SAVE LENGTH OF VALUE STRING
02D6 544 20$: LOCC (R2)+, #4, ACCESS ;LOCATE PROTECTION CODE
02D6 545 BEQL 50$ ;IF EQL INVALID PROTECTION CODE
02D6 546 DECL R0 ;CALCULATE RELATIVE BIT NUMBER IN FIELD
02D6 547 ADDL R8, R0 ;CALCULATE ACTUAL BIT NUMBER
02D6 548 BBCC R0, R9, 30$ ;ALLOW SPECIFIED ACCESS
02D6 549 30$: SOBGTR R7, 20$ ;ANY MORE TO SCAN?
02D6 550 BRB 10$
02D6 551 40$: PUSHL R9 ;SET NEW DEFAULT PROTECTION ARGUMENT
02D6 552 CLRL -(SP) ;ZERO ADDRESS OF RETURN DESCRIPTOR
02D6 553 PUSHAL 4(SP) ;ADDRESS OF NEW PROTECTION
02D6 554 CALLS #3, @SYS$SETDFPROT ;SET DEFAULT PROTECTION
02D6 555 RSB
02D6 556 50$: STATUS IVPROT ;SET INVALID PROTECTION CODE
02D6 557 RSB
02D6 558 60$: STATUS IVKEYW ;SET INVALID KEYWORD
02D6 559 RSB
```

7E	7E	D4	02D6	525	CLRL	-(SP)	;SET PROTECTION
	5E	D0	02D8	526	MOVL	SP, -(SP)	;WHERE TO RETURN PROTECTION
	7E	D4	02D8	527	CLRL	-(SP)	;NOTE WHERE PROTECTION IS TO BE PUT
00000000'9F	02	FB	02DD	528	CALLS	#2, @SYS\$SETDFPROT	;DON'T WANT TO SET PROTECTION
59	8E	D0	02E4	529	MOVL	(SP)+, R9	;GET DEFAULT PROTECTION
	18	C0	02E7	530	ADDL	#2*PTR_C_LENGTH, -	;COPY PROTECTION TO USEFUL REG
BA AA			02E9	531		WRK_L_RSCNXT(R10)	;SKIP PAST OPTION DESCRIPTOR
FD12'		30	02EB	532	10\$: BSBW	DCL\$GETDVAL	;AND /DEFAULT QUALIFIER
55	03	91	02EE	533	CMPB	#PTR_K_PARAMETER, R5	;GET NEXT DESCRIPTOR VALUES
	34	12	02F1	534	BNEQ	40\$;PARAMETER VALUE?
FDOB CF	04	3A	02F3	535	LOCC	(R2)+, #4, CLASS	;IF NEQ NO
	43	13	02F9	536	BEQL	60\$;LOCATE PROTECTION CLASS
	50	D7	02FB	537	DECL	R0	;IF EQL INVALID CLASS
58	04	C5	02FD	538	MULL3	#4, R0, R8	;CALCULATE STARTING BIT NUMBER
59	04	F0	0301	539	INSV	#*XF, R8, #4, R9	;START WITH NO ACCESS
	54	91	0306	540	CMPB	#PTR_K_COLON, R4	;PROTECTION VALUE SPECIFIED?
	EO	12	0309	541	BNEQ	10\$;IF NEQ NO
	FCF2'	30	030B	542	BSBW	DCL\$GETDVAL	;GET PROTECTION VALUE DESCRIPTOR
FCE9 CF	57	D0	030E	543	MOVL	R1, R7	;SAVE LENGTH OF VALUE STRING
	04	3A	0311	544	20\$: LOCC	(R2)+, #4, ACCESS	;LOCATE PROTECTION CODE
	1D	13	0317	545	BEQL	50\$;IF EQL INVALID PROTECTION CODE
	50	D7	0319	546	DECL	R0	;CALCULATE RELATIVE BIT NUMBER IN FIELD
50	58	C0	031B	547	ADDL	R8, R0	;CALCULATE ACTUAL BIT NUMBER
00 59	50	E5	031E	548	BBCC	R0, R9, 30\$;ALLOW SPECIFIED ACCESS
	EC	F5	0322	549	30\$: SOBGTR	R7, 20\$;ANY MORE TO SCAN?
	C4	11	0325	550	BRB	10\$	
	59	D0	0327	551	40\$: PUSHL	R9	;SET NEW DEFAULT PROTECTION ARGUMENT
	7E	D4	0329	552	CLRL	-(SP)	;ZERO ADDRESS OF RETURN DESCRIPTOR
00000000'9F	04	DF	032B	553	PUSHAL	4(SP)	;ADDRESS OF NEW PROTECTION
	03	FB	032E	554	CALLS	#3, @SYS\$SETDFPROT	;SET DEFAULT PROTECTION
		05	0335	555	RSB		
		05	0336	556	50\$: STATUS	IVPROT	;SET INVALID PROTECTION CODE
		05	033D	557	RSB		
		05	033E	558	60\$: STATUS	IVKEYW	;SET INVALID KEYWORD
		05	0345	559	RSB		

```
0346 561 .SBTTL SET VERIFY MODE
0346 562
0346 563 *
0346 564 DCL$SETVERIFY - SET VERIFY MODE
0346 565
0346 566 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET VERIFY
0346 567 MODE DCLS COMMAND.
0346 568
0346 569 INPUTS:
0346 570
0346 571 R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0346 572 R9 = ADDRESS OF SCRATCH STACK.
0346 573 R10 = BASE ADDRESS OF COMMAND WORK AREA.
0346 574 R11 = BASE ADDRESS OF PROCESS WORK AREA.
0346 575
0346 576 OUTPUTS:
0346 577
0346 578 THE VERIFY MODE IS ESTABLISHED.
0346 579
0346 580 DCL$SETVERIFY:: ;SET VERIFY MODE
0346 581
0346 582
0346 583 :
0346 584 : PARSE THE COMMAND.
0346 585
0346 586 BSBW DCL$GETDVAL
0346 587 BLBC R3,10$
0346 588 CLRL R6
0346 589 BRB 40$
0346 590 10$: MOVL #3,R6
0346 591 BSBW DCL$GETDVAL
0346 592 CMPL #PTR_K_ENDLINE,R5
0346 593 BEQL 40$
0346 594 20$: MOVL #15,R6
0346 595 CMPB #^A/P/,(R2)
0346 596 BEQL 25$
0346 597 CMPB #^A/P/,2(R2)
0346 598 BNEQ 30$
0346 599 BICL #8,R6
0346 600 BISL #2,R6
0346 601 BLBC R3,35$
0346 602 BICL #2,R6
0346 603 BRB 35$
0346 604 30$: BICL #4,R6
0346 605 BISL #1,R6
0346 606 BLBC R3,35$
0346 607 BICL #1,R6
0346 608 35$: BSBW DCL$GETDVAL
0346 609 CMPL #PTR_K_ENDLINE,R5
0346 610 BEQL 40$
0346 611 BRB 20$
0346 612
0346 613 :
0346 614 : UPDATE PROCEDURE VERIFICATION STATE.
0346 615
0346 616 40$: BBS #3,R6,50$
0346 617 BISW #PRC_M_VERIFY,PRC_W_FLAGS(R11)
0346 618 BBS #1,R6,50$

FCB7' 30 0346 585
04 53 E9 0349 586
56 56 D4 034C 587
56 03 11 034E 588
55 04 D0 0350 589
55 34 D1 0353 590
56 0F 13 0356 591
62 50 8F 91 0359 592
02 A2 50 07 13 035B 593
56 0F 91 035E 594
56 0E 13 0362 595
56 08 CA 0364 596
56 02 C8 0366 597
11 53 E9 0368 598
56 02 CA 036E 599
56 0C 11 0371 600
56 04 CA 0374 601
56 01 C8 0377 602
03 53 E9 0379 603
56 01 CA 037C 604
56 01 CA 037F 605
55 04 30 0382 606
55 02 D1 0385 607
56 02 13 0388 608
CF 11 038B 609
038D 610
038F 611
038F 612
038F 613
038F 614
10 56 03 E0 038F 615
68 AB 0080 8F A8 0393 616
06 56 01 E0 0399 617
```

SET
V04-000

F 9
- SET PARAMETER DCLS COMMAND EXECUTION
SET VERIFY MODE

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68 AB	0080 8F	AA 039D	618		BICW	#PRC W VERIFY,PRC_W_FLAGS(R11)	:DISABLE VERIFICATION
08 56	02	E1 03A3	619	508:	BBC	#2,R5,808	:BRANCH IF "IMAGE" SPECIFIED
		05 03A7	620		STATUS	NORMAL	:SET STATUS
			621		RSB		:RETURN


```
03AF 623 .SBTTL SET IMAGE VERIFY MODE
03AF 624
03AF 625 DCL$SETVERIFY_IMAGE - SET IMAGE VERIFY MODE
03AF 626
03AF 627 THIS ROUTINE IS CALLED TO SET IMAGE VERIFY MODE.
03AF 628
03AF 629 INPUTS:
03AF 630
03AF 631 R6 = IMAGE VERIFY FLAGS, LBC MEANS CLEAR, LBS MEANS SET
03AF 632 R11 = BASE ADDRESS OF PROCESS WORK AREA.
03AF 633
03AF 634 OUTPUTS:
03AF 635
03AF 636 THE IMAGE VERIFY MODE IS ESTABLISHED.
03AF 637
03AF 638
03AF 639 60$:
03AF 640 DCL$SETVERIFY_IMAGE:: ;SET IMAGE VERIFY MODE
03AF 641
03AF 642 GET INPUT STREAM INFORMATION.
03AF 643
03AF 644 MOVL PRC_L_INDFAB(R11),R1 ;GET ADDRESS OF GENERIC FAB
03AF 645 MOVL PRC_L_IDFLNK(R11),R2 ;GET ADDR OF CURRENT IND FRAME
03AF 646 MOVW IDF_W_INPIFI(R2),FAB$W_IFI(R1) ;GET INPUT IFI
03AF 647
03AF 648
03AF 649 UPDATE IMAGE VERIFICATION STATE BOTH IN PRC AND FOR CURRENT INPUT STREAM.
03AF 650
03AF 651 BLBC R6,70$ ;BRANCH IF /NOIMAGE
03AF 652 BBS #PRC_V_VERIMAGE - ;IF IMAGE VERIFY ALREADY SET,
03AF 653 PRC_B_FLAGS2(R11),90$ ; THEN DONE
03AF 654 BISW #PRC_M_VERIMAGE,PRC_B_FLAGS2(R11) ;ENABLE IMAGE VERIFICATION
03AF 655 BRB 80$ ;EXECUTE $MODIFY
03AF 656
03AF 657 70$: BBC #PRC_V_VERIMAGE - ;IF IMAGE VERIFY ALREADY CLEAR,
03AF 658 PRC_B_FLAGS2(R11),90$ ; THEN DONE
03AF 659 BICW #PRC_M_VERIMAGE,PRC_B_FLAGS2(R11) ;DISABLE IMAGE VERIFICATION
03AF 660
03AF 661 80$: BSBB DCL$VERIFY_IMAGE ;ENABLE OR DISABLE VERIFICATION
03AF 662 BLBC R0,95$ ;RETURN ERROR STATUS
03AF 663
03AF 664 90$: STATUS NORMAL ;RETURN SUCCESS
03AF 665 95$: RSB ;
```

51	1C	AB	D0	03AF	644	MOVL	PRC_L_INDFAB(R11),R1	;GET ADDRESS OF GENERIC FAB
52	00BC	CB	D0	03B3	645	MOVL	PRC_L_IDFLNK(R11),R2	;GET ADDR OF CURRENT IND FRAME
0000	C1	04	D0	03B8	646	MOVW	IDF_W_INPIFI(R2),FAB\$W_IFI(R1)	;GET INPUT IFI
				03BE	647			
				03BE	648			
				03BE	649			
				03BE	650			
	0F	56	E9	03BE	651	BLBC	R6,70\$;BRANCH IF /NOIMAGE
		07	E0	03C1	652	BBS	#PRC_V_VERIMAGE -	;IF IMAGE VERIFY ALREADY SET,
1B	00AF	CB		03C3	653		PRC_B_FLAGS2(R11),90\$; THEN DONE
00AF	CB	0080	8F	03C7	654	BISW	#PRC_M_VERIMAGE,PRC_B_FLAGS2(R11)	;ENABLE IMAGE VERIFICATION
		0D	11	03CE	655	BRB	80\$;EXECUTE \$MODIFY
				03D0	656			
		07	E1	03D0	657	BBC	#PRC_V_VERIMAGE -	;IF IMAGE VERIFY ALREADY CLEAR,
0C	00AF	CB		03D2	658		PRC_B_FLAGS2(R11),90\$; THEN DONE
00AF	CB	0080	8F	03D6	659	BICW	#PRC_M_VERIMAGE,PRC_B_FLAGS2(R11)	;DISABLE IMAGE VERIFICATION
				03DD	660			
		0B	10	03DD	661	BSBB	DCL\$VERIFY_IMAGE	;ENABLE OR DISABLE VERIFICATION
	07	50	E9	03DF	662	BLBC	R0,95\$;RETURN ERROR STATUS
				03E2	663			
				03E2	664			
			05	03E9	665	90\$: STATUS	NORMAL	;RETURN SUCCESS
						95\$: RSB		;

```
03EA 667 .SBTTL MODIFY INPUT STREAM CHARACTERISTICS
03EA 668
03EA 669 :++ DCLSVERIFY_IMAGE - MODIFY THE INPUT STREAM CHARACTERISTICS.
03EA 670
03EA 671 INPUTS:
03EA 672
03EA 673 R1 = INPUT FAB
03EA 674 R11 = ADDRESS OF PRC DATA STRUCTURE
03EA 675
03EA 676 OUTPUTS:
03EA 677
03EA 678 RO = STATUS
03EA 679 :--
03EA 680
03EA 681 DCLSVERIFY_IMAGE::
03EA 682 TSTB PRC_B_EXONLYL(R11) :ARE WE IN EXE-ONLY MODE?
03EE 683 BNEQ 90$ :YES, DON'T DO ANYTHING.
03F0 684
03F0 685 BBS #PRC_V_MODE,PRC_W_FLAGS(R11),10$ :BRANCH IF NOT INTERACTIVE
03F5 686 MOVL #1,RO :ASSUME SUCCESS
03F8 687 TSTL PRC_L_INDEPTH(R11) :BRANCH IF LEVEL 0
03FB 688 BEQL 90$
03FD 689 10$: MOVW #RMESC_PPFCHO,FABSL_CTX(R1) :SET TYPE CODE
0402 690 CLRW FABSL_CTX+2(R1) :ZERO ISI VALUE
0406 691 BBC #PRC_V_VERIMAGE - :IF IMAGE VERIFY SET,
0408 692 PRC_B_FLAGS2(R11),20$ : THEN SET THE ISI
040C 693 MOVL PRC_L_INDOUTRAB(R11),RO :GET ADDR OF OUTPUT RAB
0410 694 MOVW RABSW_ISI(RO) - :SET OUTPUT ISI
0414 695 FABSL_CTX+2(R1)
0417 696 20$: PUSHL R1 :SAVE R1
0419 697 BISL #FABSM_ESC,FABSL_FOP(R1) :SET ESC BIT IN FOP
0422 698 $MODIFY FAB=(RT) :MODIFY THE INPUT STREAM
042B 699 POPL R1 :RESTORE R1
042E 700 BICL #FABSM_ESC,FABSL_FOP(R1) :CLEAR ESC BIT IN FOP
0437 701 CLRL FABSL_CTX(R1)
043B 702 90$: RSB :RETURN STATUS
```

012D CB 95
4B 12
0B 68 AB 06 E0
50 01 D0
5C AB D5
3E 13
0000'C1 02 B0
0002'C1 B4
07 E1
0B 00AF CB
50 18 AB D0
0000'C0 B0
0002'C1 0414
51 DD
0000'C1 00000000'8F C8
51 8ED0
0000'C1 00000000'8F CA
0000'C1 D4
05 043B

```
043C 704 .SBTTL SET ON MODE
043C 705
043C 706 DCL$SETON - SET ON MODE
043C 707
043C 708 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET ON
043C 709 MODE DCLS COMMAND.
043C 710
043C 711 INPUTS:
043C 712
043C 713 R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
043C 714 R9 = ADDRESS OF SCRATCH STACK.
043C 715 R10 = BASE ADDRESS OF COMMAND WORK AREA.
043C 716 R11 = BASE ADDRESS OF PROCESS WORK AREA.
043C 717
043C 718 OUTPUTS:
043C 719
043C 720 THE ON MODE IS ESTABLISHED.
043C 721
043C 722
043C 723 DCL$SETON::
043C 724 BSBW DCL$GETDVAL ;SET ON MODE
043F 725 STATUS NORMAL ;GET THE DESCRIPTOR FOR 'ON'
51 6A AB 9E 0446 726 MOVAB PRC W ONLEVEL(R11),R1 ;SET NORMAL COMPLETION STATUS
61 07 08 91 044A 727 CMPB #8,(R1) ;GET ADDRESS OF ON LEVEL CODE
07 53 E8 044D 728 BLBS R3,20$ ;CHECK 'ON' LEVEL FOR RESERVED LEVEL
04 14 0450 729 BGTR 10$ ;BR IF OPTION WAS NEGATED (NOON)
61 01 A1 90 0452 730 MOVB 1(R1),(R1) ;BR IF 'ON' ALREADY ACTIVE
05 0456 731 10$: RSB ;RESET TO SAVED VALUE
07 13 0457 732 20$: BEQL 30$ ;BR IF 'ON' ALREADY AT RESEVED LEVEL
01 A1 61 90 0459 733 MOVB (R1),1(R1) ;SAVE PREVIOUS 'ON' LEVEL
61 08 90 045D 734 MOVB #8,(R1) ;SET TO RESERVED LEVEL
05 0460 735 30$: RSB ;END OF NOON HANDLING
```



```
0461 737 .SBTTL SET CONTROL ENABLE/DISABLE
0461 738
0461 739 :+ DCL$SETCTLY - SET CONTROL MODE
0461 740 :
0461 741 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET CONTROL=KEY
0461 742 : MODE DCLS COMMAND.
0461 743 :
0461 744 : INPUTS:
0461 745 :
0461 746 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0461 747 : R9 = ADDRESS OF SCRATCH STACK.
0461 748 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0461 749 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0461 750 :
0461 751 : OUTPUTS:
0461 752 :
0461 753 : CONTROL Y AND OUT-OF-BAND AST'S ARE ENABLED OR DISABLED FOR THIS
0461 754 : PROCESS.
0461 755 :
0461 756 DCL$SETCTLY::
0461 757 CLRL -(SP) ;SET CONTROL MODE
0463 758 BSBW DCL$GETDVAL ;ALLOCATE CHAR MASK ON STACK
0466 759 ASSUME PTR V_NEGATE EQ 20 ;GET OPTION DESCRIPTOR
0466 760 MOVL R3,R6 ;SAVE [NO] STATUS FOR FUTURE USE
0469 761
0469 762 BSBW DCL$GETDVAL ;GET FIRST LETTER
046C 763 R5,#PTR_K_ENDLINE ;END OF LINE?
046F 764 BNEQ 30$ ;IF YES, THEN ASSUME Y
0471 765 BSBB CTRL_Y ;OTHERWISE, SET CONTROL_Y BY DEFAULT
0473 766 BRB 80$ ;ALL DONE
0475 767
0475 768 30$: LOCC (R2),#26,CONTROL_CHARS ;GET INDEX OF LETTER
047B 769 BBSS R0,(SP),40$ ;SET CHAR BIT IN MASK
047F 770 40$: BSBW DCL$GETDVAL ;GET NEXT PARAMETER
0482 771 CMPB R5,#PTR_K_ENDLINE ;END OF LINE?
0485 772 BNEQ 30$ ;LOOP IF NOT
0487 773
0487 774 50$: BISL3 (SP),PRC_L_OUTOFBAND(R11),R1 ;GET CHARACTER MASK
048D 775 BLBC R6,70$ ;IF LBC, THEN ENABLE SPECIFIED
0490 776 BBC #PRC_V_CTRL_Y,(SP),60$ ;IF NOT CTRL/Y, THEN SKIP
0494 777 BSBB CTRL_Y ;DO SPECIAL CTRL/Y PROCESSING
0496 778 60$: BISL3 (SP),PRC_L_OUTOFBAND(R11),R1 ;SET MASK FOR DISABLE
049C 779 70$: JSB DCL$RESET00B ;ENABLE/DISABLE APPROPRIATE AST ROUTINES
04A2 780
04A2 781 80$: MOVL (SP)+,R0 ;RESTORE STACK
04A5 782 STATUS NORMAL ;SET NORMAL COMPLETION STATUS
04AC 783 RSB
04AD 784
04AD 785 CTRL_Y: BISL #PRC_M_CTRL_Y,PRC_L_OUTOFBAND(R11) ;ASSUME ENABLE SPECIFIED
04B6 786 BLBC R6,10$ ;IF LBC, THEN ENABLE SPECIFIED
04B9 787 BICL #PRC_M_CTRL_Y,PRC_L_OUTOFBAND(R11) ;CLEAR CTRL/Y BIT IN MASK
04C2 788 BSBW W^DCL$ONCTLYRST ;RESET CONTROL Y COMMAND TEXT
04C5 789 10$: RSB
04C6 790
```

7E D4 0461 757
FB9A' 30 0463 758
56 53 D0 0466 759
04 FB94' 30 0469 762
55 91 046C 763
04 12 046F 764
3A 10 0471 765
2D 11 0473 766
FBA2 CF 1A 62 3A 0475 767
00 6E 50 E2 047B 769
FB7E' 30 047F 770
04 55 91 0482 771
EE 12 0485 772
51 00B4 CB 6E C9 0487 774
OC 56 E9 048D 775
02 6E 19 E1 0490 776
17 10 0494 777
51 00B4 CB 6E CB 0496 778
00000000'EF 16 049C 779
50 8E D0 04A2 780
05 04A5 782
05 04AC 783
05 04AD 784
00B4 CB 02000000 8F C8 04AD 785
OC 56 E9 04B6 786
00B4 CB 02000000 8F CA 04B9 787
FB3B' 30 04C2 788
05 04C5 789
05 04C6 790

```
04C6 792 .SBTTL SET PROMPT
04C6 793
04C6 794 DCL$SETPROMPT - SET PROMPT
04C6 795
04C6 796 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET PROMPT
04C6 797 DCLS COMMAND.
04C6 798
04C6 799 INPUTS:
04C6 800
04C6 801 R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
04C6 802 R9 = ADDRESS OF SCRATCH STACK.
04C6 803 R10 = BASE ADDRESS OF COMMAND WORK AREA.
04C6 804 R11 = BASE ADDRESS OF PROCESS WORK AREA.
04C6 805
04C6 806 OUTPUTS:
04C6 807
04C6 808 THE DCL PROMPT STRING IS CHANGED.
04C6 809
04C6 810 DCL$SETPROMPT::
04C6 811 MOVW DCL$CRLF,PRC_W_PMPTCTRL(R11);ASSUME /CONTROL
04CF 812 SETBIT PRC_V_CARRCNTL,PRC_W_FLAGS(R11);SET CR/LF FLAG
04D3 813 BSBW DCL$GETDVAL;GET FIRST TOKEN
04D6 814 CMPB R5,#PTR_K_CMDQUAL;/[NO]CONTROL QUALIFIER?
04D9 815 BNEQ 20$;NO, THEN BRANCH
04DB 816 ASSUME PTR_V_NEGATE EQ 20
04DB 817 BLBC R3,T0$;BRANCH IF NOT NEGATED
04DE 818 CLRW PRC_W_PMPTCTRL(R11);SET NOCONTROL
04E2 819 CLRBIT PRC_V_CARRCNTL,PRC_W_FLAGS(R11);INDICATE NO CR/LF
04E6 820 10$: BSBW DCL$GETDVAL;GET 'PROMPT' TOKEN
04E9 821 20$: BSBW DCL$GETDVAL;GET PROMPT STRING
04EC 822 CMPB R5,#PTR_K_ENDLINE;IF PRESENT
04EF 823 BNEQ 30$;THEN RESET THE PROMPT
04F1 824 MOVL DCL$T_PROMPT,-;ELSE RESTORE THE DEFAULT
04F7 825 PRC_B_CONTINUE(R11)
04FA 826 #DCL$T_PROMPTLEN,-
04FD 827 PRC_B_PROMPTLEN(R11)
0500 828 BRB 80$;DONE
0502 829 30$: MOVL #CL$ STRTOOLNG,R0;ASSUME STRING IS TOO LONG
0509 830 CMPL R1,#ENT_K_MAX_PROMPT;IS IT TOO LONG?
050C 831 BGTRU 90$;YES, THEN ERROR
050E 832 ASSUME ENT_K_MAX_PROMPT LT 256
050E 833 #3,R1,-;SAVE LENGTH OF PROMPT
0514 834 PRC_B_PROMPTLEN(R11)
0514 835 MOVCL R1,TR2),PRC_G_PROMPT(R11);SAVE PROMPT STRING
051A 836 80$: STATUS NORMAL;RETURN NORMAL STATUS
0521 837 90$: RSB
0522 838
0522 839 .END
```

00F1 CB 00000000'EF B0
FB2A' 30
00 55 91
OE 12
08 53 E9
00F1 CB B4
FB17' 30
FB14' 30
04 55 91
11 12
00000000'EF D0
00F3 CB
00'8F 90
00F0 CB
18 11
50 000388FA 8F D0
20 51 D1
13 1A
00F0 CB 51 03 81
00F4 CB 62 51 28
05
0522
0522

SET
Symbol table

- SET PARAMETER DCLS COMMAND EXECUTION

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SS.TMP1	= 00000001			LNMSV CONCEALED	= 00000008
SS.TMP2	= 00000061			LNMS_ATTRIBUTES	= 00000003
ACCESS	00000000	R	02	LNMS_MAX_INDEX	= 00000007
CLASS	00000004	R	02	LNMS_STRING	= 00000002
CLIS_DIRECT	= 00038030			LOGSC PROCESS	= 00000002
CLIS_INVUIC	= 000381A8			L_ATTR	= 00000010
CLIS_IVKEYW	= 00038060			L_MAX_INDEX	= 00000014
CLIS_IVPROT	= 00038070			MAX_TRANS_LVL	= 0000000A
CLIS_NORMAL	= 00030001			PCBSL_UIC	= 000000BC
CLIS_STRTOOLNG	= 000388FA			PRC_B_CONTINUE	000000F3
CONTROL_CHARS	0000001D	R	02	PRC_B_DEFRADIX	000000AE
CTRL	000004AD	R	02	PRC_B_EXMDEPMOD	000000AD
CVTUIC	00000143	R	02	PRC_B_EXMDEPWID	000000AC
DCL\$CRLF	*****	X	02	PRC_B_EXONLYL	0000012D
DCL\$CVTUIC	000000A5	RG	02	PRC_B_FLAGS2	000000AF
DCL\$C_PROMPTLEN	*****	X	02	PRC_B_IMGFLAG	00000078
DCL\$GETDVAL	*****	X	02	PRC_B_OUTFLAGS	0000012C
DCL\$ONCTLYRST	*****	X	02	PRC_B_PROMPTLEN	000000F0
DCL\$RESETOOB	*****	X	02	PRC_C_LENGTH	00000534
DCL\$SETCTLY	00000461	RG	02	PRC_G_COMMANDS	00000133
DCL\$SETDEFAULT	00000159	RG	02	PRC_G_PROMPT	000000F4
DCL\$SETON	0000043C	RG	02	PRC_K_LENGTH	00000534
DCL\$SETPROMPT	000004C6	RG	02	PRC_L_CURRKEY	00000048
DCL\$SETPROT	000002D6	RG	02	PRC_L_EXMDEPADR	000000A8
DCL\$SETUIC	00000037	RG	02	PRC_L_EXTARG	00000094
DCL\$SETVERIFY	00000346	RG	02	PRC_L_EXTBLK	0000008C
DCL\$SETVERIFY_IMAGE	000003AF	RG	02	PRC_L_EXTCOD	0000009C
DCL\$T_DSKNAM	00000014	RG	02	PRC_L_EXTHND	00000090
DCL\$T_PROMPT	*****	X	02	PRC_L_EXTPRM	00000098
DCL\$VERIFY IMAGE	000003EA	RG	02	PRC_L_IDFLNK	000000BC
ENT_K_MAX_PROMPT	= 00000020			PRC_L_IMGACTSTS	00000080
FAB\$L_CTX	*****	X	02	PRC_L_INDCLOCK	0000007C
FAB\$L_FOP	*****	X	02	PRC_L_INDEPTH	0000005C
FAB\$M_ESC	*****	X	02	PRC_L_INDFAB	0000001C
FAB\$W_IFI	*****	X	02	PRC_L_INDIRAB	00000014
IDF_B_OUTFLAGS	00000038			PRC_L_INDOUAB	00000018
IDF_C_LENGTH	00000074			PRC_L_INPRAB	00000008
IDF_K_LENGTH	00000074			PRC_L_LASTKEY	0000004C
IDF_L_FILENAME	00000068			PRC_L_LSTSTATUS	000000B0
IDF_L_INPRABCTX	0000000C			PRC_L_ONCTLY	000000B8
IDF_L_LNK	00000000			PRC_L_ONERROR	0000006C
IDF_L_ONCTLY	00000060			PRC_L_OUTOFBAND	000000B4
IDF_L_ONERROR	00000008			PRC_L_OUTAB	0000000C
IDF_L_OUTABCTX	00000024			PRC_L_OUTABCTX	00000118
IDF_L_SEARCHCTX	00000064			PRC_L_PPFLIST	00000070
IDF_Q_LABEL	00000018			PRC_L_RECALLPTR	0000012F
IDF_Q_LOCAL	00000010			PRC_L_RESTART	00000058
IDF_T_INPDVI	0000003C			PRC_L_SAVAP	00000000
IDF_T_OUTDVI	00000028			PRC_L_SAVFP	00000004
IDF_W_FLAG	0000005E			PRC_L_SEVERITY	00000050
IDF_W_INPDID	00000052			PRC_L_SPWN	000000C0
IDF_W_INPFID	0000004C			PRC_L_STACKLM	000000A4
IDF_W_INPIFI	00000004			PRC_L_STACKPT	000000A0
IDF_W_INPRFA	00000058			PRC_L_STATUS	00000054
IDF_W_ONLEVEL	00000006			PRC_L_STS	00000084
IDF_W_OUTIFI	00000020			PRC_L_STV	00000088
IDF_W_OUTISI	00000022			PRC_L_SYMBOL	00000060

SET
Symbol table

- SET PARAMETER DCLS COMMAND EXECUTION

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```

PRC_L_TMBX          00000074
PRC_L_TRMLIST       00000010
PRC_M_CTRLY        = 02000000
PRC_M_VERIFY        = 00000080
PRC_M_VERIFYIMAGE   = 00000080
PRC_Q_ALLOCREG      00000020
PRC_Q_COMMAND       000000E0
PRC_Q_FLUSHTIME     000000D0
PRC_Q_GLOBAL        00000028
PRC_Q_IMAGENAME     000000D8
PRC_Q_KEYPAD        00000040
PRC_Q_LABEL         00000030
PRC_Q_LOCAL         00000038
PRC_Q_SAVEPRIV      000000E8
PRC_T_OUTDVI        0000011C
PRC_V_CARRCNTL      = 00000000
PRC_V_CTRLY         = 00000019
PRC_V_MODE          = 00000006
PRC_V_VERIFYIMAGE   = 00000007
PRC_W_ASTIOSB       000000C6
PRC_W_ASTRETN       000000C8
PRC_W_ASTSTATUS     000000C4
PRC_W_ATTMBX        0000007A
PRC_W_FLAGS         00000068
PRC_W_INPCHAN       00000064
PRC_W_ONLEVEL       0000006A
PRC_W_OUTIFI        00000114
PRC_W_OUTISI        00000116
PRC_W_OUTMBXCHN     000000CA
PRC_W_OUTMBXREF     000000CE
PRC_W_OUTMBXSIZ     000000CC
PRC_W_PMPTCTRL      000000F1
PRC_W_WAITIOSB      00000066
PTR_B_LEVEL         00000004
PTR_B_NUMBER        00000005
PTR_B_PARMCNT       00000006
PTR_B_VALUE         00000000
PTR_C_LENGTH        0000000C
PTR_K_COLON         = 00000002
PTR_K_CONDQUAL      = 00000000
PTR_K_ENDLINE       = 00000004
PTR_K_LENGTH        0000000C
PTR_K_PARAMETR      = 00000003
PTR_L_DESCR         00000000
PTR_L_ENTITY        00000008
PTR_V_NEGATE        = 00000014
Q_LOGNAM            = 00000000
Q_TABLE             = 00000008
RABSW_ISI           = 00000002
RMESC_PPFCHO        = 00000002
SCHSGC_CURPCB       = 0000008F
SETUIC              R
SSS_NOLOGNAM        = 00000000
SSS_NORMAL          = 00000000
SYSSASCTOID         = 00000000
SYSSCMKRNL          = 00000000
SYSSCRELOG          = 00000000

```

```

SYSSMODIFY          *****
SYSSSETDDIR         *****
SYSSSETDFPROT        *****
SYSSSTRNLNM          *****
SYSSSTRNLOG          *****
S_XLT_BUF            = 0000011C
TABNAM               = 00000008
TABNAMSZ             = 0000000C
T_STRING_BUF         = 0000001C
WRK_B_CMDOPT         FFFFFFFC3
WRK_B_MAXPARM        FFFFFFFD0
WRK_B_MINPARM        FFFFFFFD1
WRK_B_PARMCNT        FFFFFFFCE
WRK_B_PARMSUM        FFFFFFFCF
WRK_B_RECALLCNT      FFFFFFFC5
WRK_B_VALLEV         FFFFFFFC4
WRK_B_VERBTYP        FFFFFFFC2
WRK_C_LENGTH         FFFFF486
WRK_G_BUFFER         FFFFF492
WRK_G_INPBUF         FFFFF896
WRK_G_RESULT         FFFFF9B6
WRK_K_LENGTH         FFFFF486
WRK_L_CHARPTR        FFFFF48E
WRK_L_DISALLOW       FFFFFFFE6
WRK_L_ERRORRTN       FFFFF9AE
WRK_L_EXPANDPTR      FFFFF486
WRK_L_IMAGE          FFFFFFFE2
WRK_L_MARKPTR        FFFFF48A
WRK_L_PAROUT         FFFFFFFD2
WRK_L_PMPTADDR       FFFFF9A2
WRK_L_PROMPTRTN      FFFFF9A6
WRK_L_PROPTR         FFFFFFFC6
WRK_L_QUABLK         FFFFFFFCA
WRK_L_READRTN        FFFFF9AA
WRK_L_RECALLPTR      FFFFFFFEA
WRK_L_RSLND          FFFFFFFB6
WRK_L_RSLNXT         FFFFFFFBA
WRK_L_SAVAP          FFFFFFFF8
WRK_L_SAVFP          FFFFFFFFC
WRK_L_SAVSP          FFFFFFFF4
WRK_L_SIGNALRTN      FFFFFFFD6
WRK_L_SPECRTN        FFFFF9B2
WRK_L_TAB_VEC        FFFFFFFDE
WRK_L_VERB           FFFFFFFBE
WRK_W_FLAGS          FFFFFFFF0
WRK_W_FLAGS2         FFFFFFFF2
WRK_W_IMGCHAN        FFFFFFFEE
WRK_W_PMPTLEN        FFFFF99E
W_STRIN_LEN          = 00000018
-SS-                 = 000000EF

```

```

X 02
X 02
X 02
X 02
GX 02
GX 02
X 02

```

```

GX 02
X 02
X 02
GX 02
GX 02
R 02

```


+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
SABSS	FFFFFFFFC (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
DCL\$ZCODE	00000522 (1314.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.05	00:00:01.73
Command processing	81	00:00:00.68	00:00:06.50
Pass 1	308	00:00:12.24	00:00:38.76
Symbol table sort	0	00:00:01.49	00:00:02.52
Pass 2	146	00:00:02.71	00:00:07.51
Symbol table output	25	00:00:00.21	00:00:00.80
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	571	00:00:17.41	00:00:57.85

The working set limit was 1500 pages.
63039 bytes (124 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 944 non-local and 65 local symbols.
839 source lines were read in Pass 1, producing 18 object records in Pass 2.
50 pages of virtual memory were used to define 33 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	10
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	26

1173 GETS were required to define 26 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SET/OBJ=OBJ\$:SET MSRC\$:SET/UPDATE=(ENH\$:SET)+EXECML\$/LIB+LIB\$:DCL/LIB+SYSSLIBRARY:SYSBLDMLB/LIB

0073 AH-BT13A-SE
VAX/VMS V4.0

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